

Title (en)

DEVICE FOR SWITCHING OFF ELECTRIC MOTOR DRIVEN POSITIONING ACTUATORS IN DEPENDENCE UPON THE DIRECTION OF TRAVEL

Publication

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Application

EP 80103165 A 19800606

Priority

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Abstract (en)

[origin: EP0021197A1] 1. Apparatus for the disconnection of electromotor servo-drives in dependence upon the servo-path, said apparatus having a respective multi-stage counter-roller switching mechanism (5, 5') for each direction of rotation, an electric switch (13, 13') which can be actuated by the last stage of said switching mechanism, and means for setting the switching points corresponding to the end positions of the servo-path, characterized in that the ratchet wheels (6, 6') of the two counter-roller switching mechanisms (5, 5') are arranged so as to be freely rotatable on the outer portions of a drive shaft (3) which is driven by the servo-motor ; that a drive gear wheel (8) is arranged on the central portion of the drive shaft (3) so as to be fixedly connected thereto, an intermediate wheel (9, 9') connected in freely rotatable manner to the first ratchet wheel of each counter-roller switching mechanism (5, 5') being arranged on either side of said drive gear wheel ; and that parallel to the drive shaft (3), an adjusting shaft (4) is arranged so as to be axially displaceable and fastenable, which adjusting shaft carries on its outer portions the stepping pinions (7, 7') of the counter-roller switching mechanisms (5, 5') on the central section of which adjusting shaft three gear wheels (10, 11, 11') are fixedly arranged at such a distance from one another that, in a central position, the central gear wheel (10) engages with the drive gear wheel (8) and the outer gear wheels (11, 11') engage with the intermediate wheels (9, 9') on the drive shaft (3), and that, in any other position on the one or other side of the central position, one of the outer gear wheels (11, 11') always engages with the respective intermediate wheel (9, 9') of a counter-roller switching mechanism (5, 5').

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